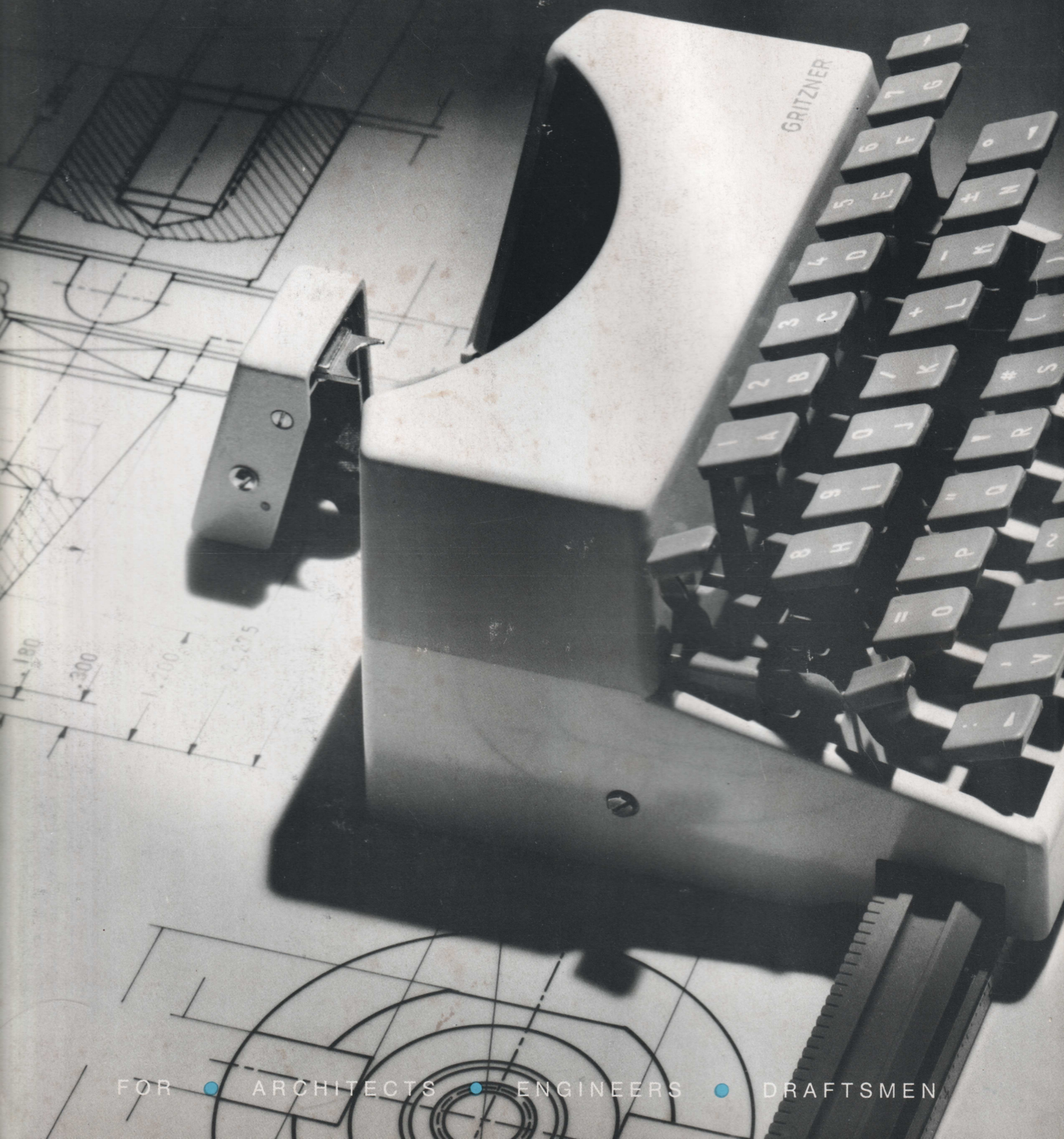


Gritzner

lettering typewriter



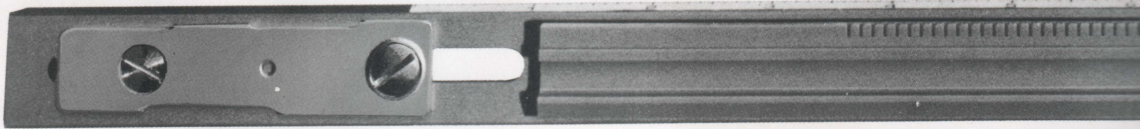
FOR • ARCHITECTS • ENGINEERS • DRAFTSMEN

The Gritzner Lettering Typewriter

The Gritzner Lettering Typewriter, designed and developed in West Germany, makes machine lettering available to the individual

draftsman. Measuring only 15.5 x 17 x 8 cm and weighing but two pounds, the Gritzner is moved freely over the surface of the drawing to provide lettering at any point necessary. It requires no special skills, training or knowledge of touch typing. Suitable for use on all types of drafting media and positioned by either drafting machine or parallel bar, the Gritzner is truly one of the most versatile tools ever made for draftsmen, designers and architects.

Features



1 Type

The Gritzner uses precision rubber type providing a block letter 3.3 mm high and of a line weight sufficient for good reproduction. (Complies with Mil Std 1-B.)

2 Keyboard

The standard keyboard provides 26 letters, 10 numerals, 20 miscellaneous punctuation marks and symbols, and two vertical and two horizontal arrowheads. These 60 characters are arranged on 30 keys with a shift. The keyboard is in alphabetical and numerical order. Additionally, there is a forward spacing key and a key to release the unit from its indexing rail allowing fast longitudinal positioning in either direction. Keys are horizontally spaced 17 mm between centers with approximately 15 mm vertical displacement between rows.

Special types and keyboards available. Type may be made to customer specifications. Type size limitation is 3.3 mm high x 3.3 mm wide for characters which print on line and are centered. Maximum size must be reduced if other positioning is required.

3 Impression

Because of variations in drafting surfaces and materials, an easy adjustment is provided to obtain the required impression. This adjustment, through an eccentric, raises or lowers the machine a minute amount.

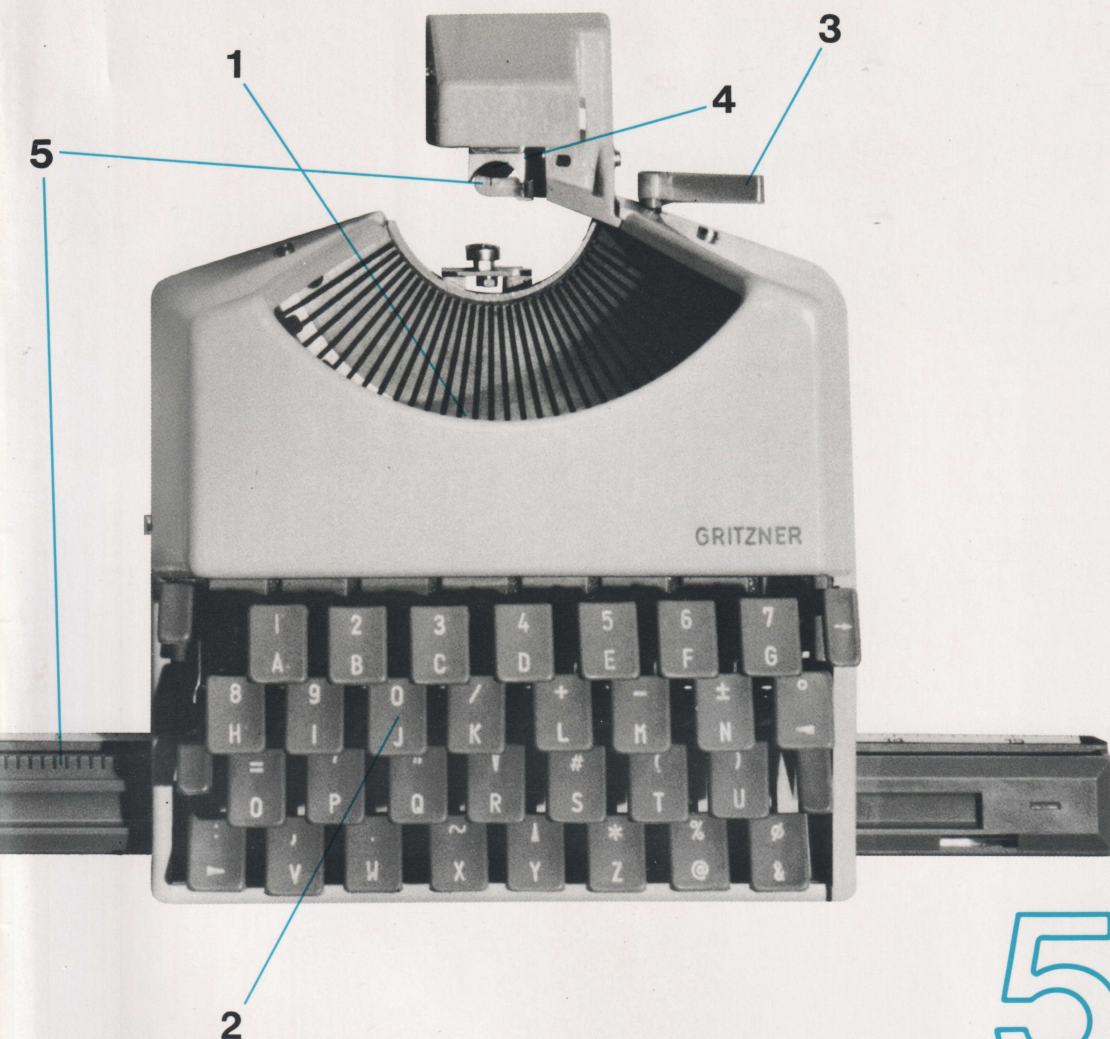
As with conventional manual typewriters, the Gritzner uses a "ring" which controls the limit of type bar travel. There is a triggering action built into each key as opposed to the usual positive typewriter linkage. Thus the type bar is driven under a uniform rate regardless of how the operator may strike the key. It is this feature which provides uniform impression with the soft type.

4 Inking

The Gritzner has no ribbon. It is inked by a pad which momentarily pivots into the path of the descending type bar. This permits an unobstructed view of the lettering. The ink pad in its holder is removable for re-inking or replacement with a fresh pad. Time between re-inking, of course, depends on use patterns, but is usually necessary only once for each drawing. The pad must be replaced about once a week or after the machine has been idle for an extended period.

The Gritzner Ink included with the machine has been very carefully formulated to provide the maximum density and minimum drying time compatible with the system. Its actinic opacity is sufficiently high to provide excellent reproduction with all types of printing and microfilm systems.

Drying time of Gritzner ink on non-porous surfaces such as polyester film is approximately half that of India Ink under most humidity conditions, thus providing more flexibility in dimensioning than with stencil type lettering systems. The ink can be erased clean from all surfaces with only slightly more effort than India Ink.



5

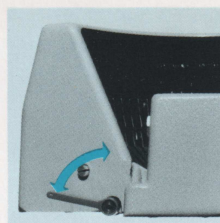
Positioning

The Gritzner is mounted on its own indexing rail, 50 cm long, which fits in the standard drafting machine in place of the horizontal scale. If a drafting machine is not used, the indexing rail may simply be held against the parallel bar or T square. Horizontal letter spacing provided by the rail is 2.6 mm. The rail has its own spring drive which automatically moves the unit one space each time a character is struck.

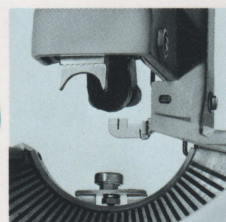
The machine is equipped with an indicator showing the exact position of the next character to be printed. This indicator may also be used for exact location of in-

sections in changed dimensions or legends.

The Gritzner may be operated at any scale angle. If in vertical motion on a tilted board, slight finger pressure may be necessary to assist the index drive spring. Because of its light weight, the machine will not overpower the drafting machine for normal board tilts. For vertical board work, however, a counterweight or other adjustment may be required.



3

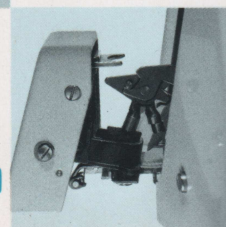


1

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	@	&
ACTUAL SIZE																											

2

4



The Gritzner Lettering Typewriter



**It pays off
in dollars
and cents**

Productivity

The Gritzner has been carefully tested against both free hand and stencil lettering using experienced draftsmen. Results show the machine to be *on the average* 1.8 times as fast as hand work and 3.5 times as fast as stencil work. As lettering can easily account for 40-50% of a draftsman's time, the resulting savings can return the low initial investment in a matter of weeks.

Uniformity

Print quality with the Gritzner is excellent and unvarying regardless of the operator. This is significant when frequent changes are encountered and several draftsmen must perform modifications. Of more importance, of course, is the added legibility from prints produced from microfilm.

Simplicity

The Gritzner requires but a few minutes of training time to produce perfect work. There is no necessity to learn a keyboard or develop a special "touch" on the keys. There is no ribbon to change and inking is only infrequently required with no danger of spillage.

Gritzner

lettering typewriter



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